PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference ETH5084PCT		to Form PCT/ISA/220 there applicable, item 5 below.			
International application No. PCT/US04/23779	International filing date (day/month/year) 23 July 2004 (23.07.2004)	(Earliest) Priority Date (day/month/year) 07 August 2003 (07.08.2003)			
Applicant ETHICON, INC.					
This international search report has been prepared by this International Searching Authority and is trunsmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior and document cited in this report. 1. Basts of the Report Withdeped to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino seld sequence disclosed in the international application, see Box No. I. Cardian claims were found unsearchable (See Box No. II) 1. Unity of invention is lacking (See Box No. III) 4. With regard to the title, The text is approved as submitted by the applicant. The text is approved as submitted by the applicant.					
	I, according to Rule 38.2(b), by this Authorit	y as it appears in Box No. IV. The applicant ch report, submit comments to this Authority.			
as suggested by the	authority, because the applicant failed to sug authority, because this figure better character ablished with the abstract.	gest a figure.			

INTERNATIONAL SEARCH REPORT

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)					
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:					
Claims Nos.: Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically.					
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).					
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)					
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet					
* .					
As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.					
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.					
As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:					
No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims, it is covered by claima Nos.: 1-18					
Remark on Protest The additional search fees were accompanied by the applicant's protest.					
No protest accompanied the payment of additional search fees.					

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No. PCT/US04/23779

A CLASSIFICATION OF SUBJECT MATTER							
IPC(7)							
According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS SEARCHED							
Minimum documentation searched (classification system followed by classification symbols) U.S.: 424/489, 491, 492, 493; 530/354, 356, 384; 514/54							
·							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet							
C. DOCUMENTS CONSIDERED TO BE RELEVANT							
Category *	Citation of document, with indication, where	Relevant to claim No.					
A	US 5,143,838 A (KRAUS et al) 01 September 1992 (01,09.1992), cols. 1 n.			1-18			
Α.	US 6,045,570 A (EPSTEIN et al) 04 April 2000 (04.04.2000), cols. 1 and 2.			1-18			
A	US 6,566,345 B2 (MILLER et al) 20 May 2003 (05.20.2003), cols. 2-4 and 6.		1-18				
				,			
Further	documents are listed in the continuation of Box C.		See patent family annex.				
Special categories of sited documents:		7	later document published after the intern	stional filing date or priority date			
"A" document defining the general state of the art which is not considered to be of			and not in conflict with the application b principle or theory underlying the invent	ut cited to understand the ion			
"B" earlier app	recevance dissticn or patent published on or after the international filing date	"X"	document of particular relevance; the cla considered novel or cannot be considered	imed invention cannot be I to involve an inventive step			
"L" document which may throw doubts on priority chim(s) or which is cited to establish the publication date of another citation or other special reason (so specified) "D" document referring to an oral disabature, use, exhibition or other means		-Y-	when the document is taken alone document of particular relevance; the cla	imed invention cannot be			
		considered to involve an inventive step with one or more other such documents, a to a person skilled in the art		then the document is combined			
"O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the		-a-	document member of the same patent for	mile			
pationally date claimed							
Date of the actual completion of the international search		Date of mailing of the international search report					
07 August 2005 (07.08.2005)		Authorized officer C 2009 Authorized officer C 2009 Abdel Af Moharment					
Name and mailing address of the ISA/US Mail Stop PCT, Atta: ISA/US			and Sum	winne			
Commissioner for Patents		Abdel Af	Moharr#rt /	729			
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. (\$71) 272-1000							
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Form PCT/ISA/210 (second sheet) (January 2004)

REPORT International application No. PCT/US04/23779

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BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING Group L claim(s) 1-18, drawn to a process for making a flowable composition.

Group II, claim(s) 19-28, drawn to a process for making a medical device for applying hemostatic composition.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 12.4, they lack the same or corresponding special technical features for the following measure. There is no Unity of Invention between the process of Group I and the medical device of Group II because the process for making a flowable hemostatic occuposition reads on a method of producing for example, thrombin as acknowledged on page 7, lines 22-25 in the instant disclosure and as stughtly U.S. Patent No. 5,143,338. Similarly, the medical device of Group II reads on mixing apparatus comprising an applicator device such as prings for lifting as acknowledged on page 7, lines 22-25 in the U.S. Patent No. 6,045,570. There is no Unity of Invention of the process of making the composition of Group I with the process of making medical device of Group II because the groups do not advant the same passional technical features, the inventions do not relate to single inventive concept.

Continuation of B. FIELDS SEARCHED Item 3:

APS, CAS ONLINE, MEDLINE, EMBASE, BIOSIS, WPIDS

search terms: hemostatic compos? or hemostasis comp? or blood coagulat? or platelet activat?, biocompatible polymer? or polysaccharide? or protein? or gelatin or collagen or fibrinogen or thrombin?, benzalkonium or glycerol; gas or air or nitrogen or carbon dioxide or xenon or argon; radio opaque or antimicrobial? or foam; of com stabil?

Form PCT/ISA/210 (extra sheet) (January 2004)